

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR

COMPREHENSIVE FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: NORTH SHORE GAS CO	Operator ID#: 13660
Inspection Date(s): 7/22/2014, 7/23/2014, 7/24/2014	Man Days: 3
Inspection Unit: Waukegan	
Location of Audit: Waukegan	
Exit Meeting Contact: Mark Kinzle	
Inspection Type: Standard Inspection - Field Audit	
Pipeline Safety Representative(s): Steve Canestrini	
Company Representative to Receive Report: Tom Webb	
Company Representative's Email Address: TJWebb@peoplesgasdelivery.com	

Headquarters Address Information:	3001 W. Grand Avenue Waukegan, IL 60085 Emergency Phone#: Fax#:	
Official or Mayor's Name:	Willard Evans Phone#: (000) 000-0000 Email:	
Inspection Contact(s)	Title	Phone No.
Mark Kinzle	General Manager	(847) 263-4679

CRITERIA FOR AREA SELECTED		Status
Higher population density		No
Age of system		No
Type of piping		Yes
Operating characteristics		No
Performance history of system		No
Manageable sized area should be chosen		Yes
MAPS OF FACILITIES INSPECTED		Status
[192.605(b)(3)]	Were system maps provided as part of this audit?	Yes
[192.603(b)]	Were system mapping used during this audit up to date?	Satisfactory

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<u>General Comment:</u> <i>Electronic maps were available and used for each portion of the inspection.</i>		
CUSTOMER METER & REGULATOR		Status
<u>Category Comment:</u> <i>Staff observed customer meter sets as part of the leak survey portion of the field audit. The leak survey was conducted in the town of Winthrop Harbor, on the following streets; 500, 600, 700 blocks of Meadow Lane, 500, 600 blocks of Meadow Ct, and 4700, 4800, and 4900 blocks of 5th Street.</i>		
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	Satisfactory
<u>General Comment:</u> <i>Of the meter sets observed, all were installed to minimize anticipated stress on the piping.</i>		
[192.353(a)]	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	Satisfactory
<u>General Comment:</u> <i>All meters were installed in a readily accessible location. Did not observe any meters where vehicle protection would be needed.</i>		
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	Satisfactory
<u>General Comment:</u> <i>All meters had a vent shield installed to protect the regulator from rain and insects.</i>		
[192.355(b)(2)]	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	Satisfactory
<u>General Comment:</u> <i>The meters were installed in a location to allow gas to vent to atmosphere.</i>		
[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	Not Applicable
<u>General Comment:</u> <i>The area surveyed is not susceptible to flooding.</i>		
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	Satisfactory
<u>General Comment:</u> <i>All meters and regulators were installed outside.</i>		
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	Satisfactory
<u>General Comment:</u> <i>The meters had a rating of 5 PSIG. The delivery pressure was 7" wc.</i>		
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	Satisfactory
<u>General Comment:</u>		

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<i>All meters had a service line valve installed upstream of the regulator and meter.</i>		
[192.365(c)]	Is the service line located in a curb box or stand pipe that allows for ready operation?	Not Applicable
<u>General Comment:</u> <i>All meters were located outside and access was not impaired. Curb valves were not needed.</i>		
LEAK SURVEY		Status
<u>Category Comment:</u> <i>A leak survey was performed in the town of Winthrop Harbor. The survey was performed on the following streets; 500, 600, and 700 blocks of Meadow Lane. 500 and 600 blocks of Meadow Ct. And 4700, 4800, and 4900 blocks of 5th Street. At 646 Meadow Lane, a corrosion follow-up order will be generated to scrap and paint the meter set.</i>		
[192.723]	Was a leak survey conducted using operator leak detection survey equipment and system maps?	Satisfactory
<u>General Comment:</u> <i>Electronic maps to perform the leak survey. An RMLD leak detection instrument was used.</i>		
[192.603(b)]	Was the operator's equipment calibrated as required?	Satisfactory
<u>General Comment:</u> <i>The RMLD serial number was 10618m, and was properly calibrated.</i>		
CATHODIC PROTECTION		Status
<u>Category Comment:</u> <i>Cathodic Protection readings were taken from two families; 2441221335 and 2441221140. All cathodic reads taken were acceptable. Staff observed disbonded coating on the riser to 303 Sheridan, Lake Bluff.</i>		
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	Satisfactory
<u>General Comment:</u> <i>The operator uses the -0.85mv criteria as outlined in Appendix D of this part.</i>		
[192.465(a)]	Were pipe to soil readings taken?	Satisfactory
<u>General Comment:</u> <i>Cathodic reading were taken at the following locations in Lake Bluff: Family 2441221335: Corner of Sheridan & Oak Terrace, -1.44. 29 Oak Terrace, -1.40. 106 Oak Terrace, -1.39. 132 Oak Terrace, -1.39. N/W corner of Ravine Forest & Oak Terrace, -1.45. 205 Oak Terrace, -1.40. 123 Ravine Forest, -1.39. 106 Ravine Forest, -1.37. Sheridan & Ravine Forest, -1.44. Family 2441221140: 363 Hirst Ct, -1.25. 303 Sheridan Pl, -1.28 (disbonded coating). 130 Sheridan Pl, -1.26. 118 Sheridan Pl, -1.22 (Plastic customer fuel line identified. Issue called in and resolved)</i>		
[192.465(b)]	Were rectifier installations inspected?	Not Applicable
<u>General Comment:</u> <i>No rectifiers were installed in the area observed.</i>		
[192.465(a)]	Were isolated mains/services tested?	Not Applicable
<u>General Comment:</u>		

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<i>Observations were made pertaining to the test points only for the area.</i>		
[192.465(c)]	Were critical/non critical bonds tested?	Not Applicable
<u>General Comment:</u> <i>No bonds were installed in the area observed.</i>		
[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	Satisfactory
<u>General Comment:</u> <i>Of the locations observed, electrical isolation was provided by an insulated union.</i>		
[192.467(c)]	Were casing installations tested for electrical isolation?	Not Applicable
<u>General Comment:</u> <i>No casings were installed in the area observed.</i>		
[192.479(a)]	Is the above ground piping coated or painted as required?	Satisfactory
<u>General Comment:</u> <i>Of the above ground piping observed, it was properly coated or painted.</i>		
[192.479(c)]	Is the pipeline free of corrosion or pitting?	Satisfactory
<u>General Comment:</u> <i>With the exception of 303 Sheridan Pl, where disbonded coating was identified, all locations were free of pitting or corrosion. North Shore Gas will follow-up on the above address.</i>		
MARKING OF FACILITIES		Status
<u>Category Comment:</u> <i>Marking of facilities was not included as part of this audit. This was reviewed as part of the Transmission audit completed in 2013.</i>		
[192.707(a)(1)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	Not Applicable
[192.707(a)(2)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	Not Applicable
[192.707(c)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located above ground?	Not Applicable
[192.707(d)(1)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters)	Not Applicable

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	stroke?	
[192.707(d)(2)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times.	Not Applicable
ODORIZATION OF GAS		Status
<u>Category Comment:</u> <i>Odorization was not included as part of the audit.</i>		
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	Not Applicable
[192.625(f)]	Was the operator's equipment calibrated as required?	Not Applicable
PRESSURE LIMITING AND REGULATING STATIONS		Status
<u>Category Comment:</u> <i>Station 365, which is located on the corner of Rt 41 and Rt176, in the town of Knollwood was observed.</i>		
[192.741]	Was the chart recorder calibration verified, if applicable?	Satisfactory
<u>General Comment:</u> <i>A telemetering device was installed at the regulator station.</i>		
[192.603(b)]	Were the types of regulators and pressure relief devices verified?	Satisfactory
<u>General Comment:</u> <i>Both the monitor and control were Rockwell 441 regulators. This information matched the information for the station.</i>		
[192.181]	Were the valves associated with regulator stations/vaults visually inspected to be readily accessible?	Not Applicable
<u>General Comment:</u> <i>The valves located inside each of the vaults was inspected and accessible. The fire valves located outside the vaults are inspected at a different interval by another crew.</i>		
[192.707(c)]	Is station marked properly?	Satisfactory
<u>General Comment:</u> <i>The station was marked with the correct number which corresponded to the paperwork for the inspection.</i>		
[192.615]	Was the MAOP of the downstream system verified?	Satisfactory
<u>General Comment:</u> <i>The MAOP was verified while reviewing the electronic maps.</i>		
[192.739(a)]	Was the most recent regulator station inspection data reviewed?	Satisfactory
<u>General Comment:</u> <i>The last regulator inspection was completed on 7/22/2013. Results of the inspection were reviewed.</i>		

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[192.739(a)]	Was the set point and lockup pressure from the most recent inspection data reviewed?	Satisfactory
General Comment:		
<i>The inspection completed in 2013, the control was set to 45 PSIG and the monitor was set at 50 PSIG.</i>		
[192.739(a)(3)]	Was the set point field verified?	Unsatisfactory
Issue Comment:		
<i>Staff was observing a North Shore Gas crew perform an annual regulator inspection. One of the digital gauges that was going to be used did not have any information pertaining to the last calibration date. When a spring gauge was brought out, it was last calibrated in March 2008. Staff questioned the operator if there were any procedures in place to ensure pressure gauges were properly calibrated within the required timeframes based on either the operator or manufacturer guidelines. The operator could not identify a procedure was in place to ensure the calibration was conducted within the necessary interval. Staff is requesting the operator to develop a procedure to document for each unit, the calibration date, along with the required interval based on the guideline(s) needed for each unit to ensure calibrations are performed within those intervals.</i>		
[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	Not Applicable
General Comment:		
<i>All piping was installed below grade.</i>		
[192.199(d)]	Are the supports for the pressure relief or pressure limiting devices made of noncombustible material?	Satisfactory
General Comment:		
<i>The piping supports within the vaults were constructed of non-combustible material.</i>		
[192.199(e)]	Are the pressure relief or pressure limiting device discharge stacks, vents, or outlet ports designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	Satisfactory
General Comment:		
<i>Water was found inside the monitor regulator during the inspection. The crew installed a copper line that will extend outside to the atmosphere.</i>		
[192.199(h)]	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	Not Checked
General Comment:		
<i>The fire valves are inspected at a different interval. The valves inside the vault were secured to prevent unauthorized use.</i>		
VALVE MAINTENANCE		Status
Category Comment:		
<i>Staff observed a North Shore Gas employee perform the annual valve inspection in the town of North Chicago. Valves 1508, 1517, 1524, 1525, and 1526 were observed.</i>		
Determine if estimated number of customers affected by valve closure meets operator maximum allowed during an outage.		Yes
[192.747(a)]	Were the valves inspected accessible?	Satisfactory
General Comment:		

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The valves that were inspected as part of the annual inspection were readily accessible.

[192.747(a)]	Was the condition of the valve boxes inspected?	Satisfactory
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General Comment:

A broken/missing cover was found at the S/E corner of Martin Luther King and Honore. A follow-up repair order was created. All other valve boxes were in proper working condition.

[192.603(b)]	Are valves recorded correctly on maps and inspection forms/screens?	Satisfactory
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General Comment:

Each valve observed was properly marked both on the form and at the valve location.

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